Page 1 of 10 APPLICATION NO. ATTY. DOCKET NO. 0942.4110002/RWE/GER 09/028,514 FORM PTO-1449 APPLICANT INFORMATION DISCLOSURE STATEMENT Gorfien et al. GROUP 1643 /65/ FILING DATE February 23, 1998 U.S. PATENT DOCUMENTS **EXAMINER** DOCUMENT NUMBER DATE NAME **CLASS** SUB-CLASS FILING DATE INITIA 435 240 07/15/1983 06/16/1987 Boyce AA1 4,673,649 08/30/1988 Cleveland 435 68 10/07/1983 AB1 4,767,704 240.31 435 11/30/1988 Darfler 05/22/1990 AC1 4,927,762 435 240.2 12/09/1986 AD1 4,940,666 07/10/1990 Boyce 435 240.2 02/17/1989 09/25/1990 Skelnik 4,959,319 AE1 435 240.31 07/24/1987 5,024,947 06/18/1991 Inlow AF1 435 29 02/23/1990 09/03/1991 Bertheussen AG1 5,045,454 435 240.2 01/11/1989 11/05/1991 Stockinger AH1 5,063,157 Kushner 435 69.1 06/14/1989 02/18/1992 AI1 5,089,397 06/16/1992 Mather 435 240.2 10/03/1990 AJ1 5,122,469 435 240.2 07/11/1991 11/24/1992 Carter AK1 5,166,066 ענא FOREIGN PATENT DOCUMENTS **EXAMINER** TRANSLATION COUNTRY CLASS SUB-CLASS INITIAL DOCUMENT NUMBER DATE No 08/28/1986 WIPO AL1 WO 86/04290 Yes EP 0 441 695 B1 08/14/1991 Europe No AM1 Yes WO 92/05246 04/02/1992 WIPO No AN1 Yes 0 481 791 A2 04/22/1992 No Europe A01 Yes WO 96/14395 05/17/1996 WIPO No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) "Serum-Free Media, Method for Culturing Animal Cells, and Process for Producing Physiologically AR 1 Active Substances," PCT Gazette No. 01/1998, p. 275 (January 8, 1998) JRH Biosciences Catalog No. 14602, 8 pages (1993) 1 Battista, P.J. et al., "Serum-free media for the culture of Chinese hamster ovary cells," 1 American Biotechnology Laboratory 12:64-68 (April 1994) DATE CONSIDERED EXAMINER 12-06-99 EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.

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Peshwa, M. et al., "Cultivation of Mammalian Cells as Aggregates in Bioreactors: Effect Calcium Concentration on Spatial Distribution of Viability," Biotechnology and Bioengine 41:179-187 (1993)	c of eering							
Subramani, S. et al., "Expression of the Mouse Dihydrofolate Reductase Complementary Deoxyribonucleic Acid in Simian Virus 40 Vectors," Molecular and Cellular Biology 1:854-(September 1981)	-864							
Wang, J-W. et al., "Establishment of Three Adenovirus Packaging Cell Lines," Cancer Gen 3(6):S24 (November 1996)	Wang, J-W. et al., "Establishment of Three Adenovirus Packaging Cell Lines," Cancer Gene Therapy 3(6):S24 (November 1996)							
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Da	AT	9	Waymouth, C., "Construction and Use of Synthetic Media," Cells and Tissues in Culture. Methods. Biology and Physiology, Volume 1, Edwin N. Willmer, ed., Academic Press, publ., pp. 99-142 (1965)							
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Da	AT	11	Boyce, S.T., and Ham, R.G., "Calcium-Regulated Differentiation of Normal Human Epidermal Keratinocytes in Chemically Defined Clonal Culture and Serum-Free Serial Culture," J. Invest. Dermatol. 81:335-405 (1983)								
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Dbu	AT	<u>13</u>	Freshney, R.I., CULTURE OF ANIMAL CELLS. A Manual of Basic Technique, Freshney, R.I., ed., Alan R. Liss, Inc., New York, NY, pp. 119-128 (1983)								
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Day	AS	<u>14</u>	Gilchrest, E From the Hyp	lchrest, B.A., et al., "Characterization and Partial Purification of Keratinocyte Growth Factor om the Hypothalamus," J. Cell. Physiol. 120:377-383 (1984)							
Da	AT	<u>14</u>	Defined Med	orfien, S.F., et al., "Recombinant Protein Production by CHO Cells Cultured in a Chemically efined Medium," poster presented at the Japanese Association for Animal Cell Technology (JAACT), 1996, Yokohama, Japan (September 1996)							
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Da	AS	<u>15</u>	Cells Under Substrata fo	Gospodarowicz, D., "Preparations and Uses of Lipoproteins to Culture Normal Diploid and Tumor Cells Under Serum-Free Conditions," in Methods for Preparation of Media, Supplements, and Substrata for Serum-Free Animal Cell Culture, Barns, D.W., et al., eds., Alan R. Liss, Inc., New York, NY, pp. 69-86 (1984)								
Da	AT	<u>15</u>	Keay, L., " Cells on Pe	Autoclavable Low ptones," <i>Biotechn</i>	Cost Serum-Free Cell Culture ol. Bioengin. 17:745-764 (197	Media. 75)	The Gr	owth of L Co	ells and BHK			
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			OTHER (Including Author	, Title, Date, Pertinent Pages,	etc.)				
Do	AR	<u>18</u>	Keratinocyt	Pittelkow, M.R., and Scott, R.E., "New Techniques for the In Vitro Culture of Human Skin Ceratinocytes and Perspectives on Their Use for Grafting of Patients With Extensive Burns," Mayo Clin. Proc. 61:771-777 (1986)						
Dia	AS	18	promoter of	mammalian cell	ein hydrolysate, Primatone RL, is culture in serum-containing and s mnunol. Meth. 194:191-199 (August	serum-free				
Da	AT	<u>18</u>	Receptor fr	om HEK 293 Cells	nuous Production of the Extracell using Novel Serum Free Medium," wer Academic Publishers, Netherla	in Animal	Cell Technolo	gy, M.		
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Dau	AR	19	Shipley, G. Keratinocyt	D., and Pittelko es Cultured in S	w, M.R., "Control of G erum-free Medium," <i>Arc</i>	rowth and Diff h. Dermatol, 12	erentiati 23:1541A-1	on In Vitro 1544A (1987	o of Human)		
Da	AS	19	Shipley, G. Is Stimulat	Shipley, G.D., et al., "Growth of Normal Human Keratinocytes and Fibroblasts in Serum-Free Medium Is Stimulated by Acidic and Basic Fibroblast Growth Factor," J. Cell. Physiol. 138:511-518 (1989)							
Dbu	AT	19	Letter of N Technologie		from counsel at Eli L	illy and Compa	ny to cou	ınsel at Lif	fe		
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	AR	<u>20</u>	Stark, D.H.	, "The Cultiva	tion of Human Kidney Ep	oithelial Co	ells in Aggr	regate Cultur	e For the
Da	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	50	Production	of Recombinant	Protein C," Ph.D. Thes	is, Purdue	University	(1994)	
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Hai	AR	<u>21</u>			ishment of Three Adenovirus tract No. P-53 (November 19		ng Cell	Lines," <i>Cont</i>	. Supp1.			
Deu	AS	<u>21</u>	Media, Suppi	Waymouth, C., "Preparation and Use of Serum-Free Culture Media," in Methods for Preparation of Media. Supplements. and Substrata for Serum-Free Animal Cell Culture, Barnes, D.W., et al., eds., Alan R. Liss, Inc., New York, NY, pp. 23-68 (1984)								
Ier	AT	<u>21</u>	Wille Jr., J.J., et al., "Integrated Control of Growth and Differentiation of Normal Human Prokeratinocytes Cultured in Serum-Free Medium: Clonal Analyses, Growth Kinetics, and Cell Cycle Studies," J. Cell. Physiol. 121:31-44 (1984)									
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Page 12 of 12 ATTY. DOCKET NO. APPLICATION NO. 0942.4110002 09/028,514 FORM PTO-1449 APPLICANT Gorfien et al. FIRST SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT FILING DATE **GROUP** February 23, 1998 1651 U.S. PATENT DOCUMENTS EXAMINER NAME CLASS SUB-CLASS FILING DATE DOCUMENT NUMBER DATE INITIAL AA ΑB AC AD ΑE AF AG AH ΑI ΑJ ΑK FOREIGN PATENT DOCUMENTS EXAMINER DOCUMENT NUMBER COUNTRY CLASS SUB-CLASS TRANSLATION INITIAL DATE Yes No AL Yes No AM Yes No AN Yes ΑO No Yes ΑP No OTHER (Including Author, Title, Date, Pertinent Pages, etc.) Letter from an outside researcher not employed by Life Technologies, Inc. to David Epstein and <u>22</u> Dale Gruber Letter from David Epstein and Dale Gruber to an outside researcher not employed by Life 22 Technologies, Inc. Report of experimental results from an outside researcher not employed by Life Technologies, Inc. <u>22</u> to David Epstein and Dale Gruber EXAMINER DATE CONSIDERED EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.